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Phosgene mfr. by reaction of carbon monoxide and chlorine - in two stages, half the chlorine being added at each stage

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Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
FR 2297190	A	19760910				197646 B

Priority Applications (No Type Date): FR 751200 A 19750108

Abstract (Basic): FR 2297190 A

Phosgene is made by vapour phase reaction between Cl₂ and CO at 50-400 degrees C and 1-10 (3-7) bars pressure in the presence of C by passing the reactants over ≥ 2 successive catalyst beds, with the whole of the CO introduced at the level of the first bed and part of the Cl₂ being introduced at each bed level, the molar ratio CO: Cl₂ being $>1:1$ pref. 1-1.1:1. A reaction completion step may be included in the process, to ensure a Cl₂ content in the phosgene <200 ppm. The prod. is used in mfr. of isocyanates for prepn. of polyurethanes. The excess CO passing through the first bed acts as carrier gas, and coolant, so that the exothermic heat of reaction is controlled without the use of a separate carrier gas which is lost, or a by-prod. gas which has to be removed.

Title Terms: PHOSGENE; MANUFACTURE; REACT; CARBON; CHLORINE; TWO; STAGE; HALF; CHLORINE; ADD; STAGE

Derwent Class: E36

International Patent Class (Additional): C01B-031/28; C08G-018/02

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